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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,965	03/31/2004	Robert Falotico	CRD-5073 NP	7706
27777 7590 05/15/2009 PHILIP S. JOHNSON JOHNSON & JOHNSON ONE JOHNSON & JOHNSON PLAZA			EXAMINER	
			KIM, JENNIFER M	
ONE JOHNSON & JOHNSON PLAZA NEW BRUNSWICK, NJ 08933-7003		7	ART UNIT	PAPER NUMBER
			1617	
			MAIL DATE	DELIVERY MODE
			05/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/813,965	FALOTICO ET AL.		
Office Action Summary	Examiner	Art Unit		
	JENNIFER MYONG M. KIM	1617		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 16 № 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowated closed in accordance with the practice under the second secon	s action is non-final. ance except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1.4.5.9 and 10 is/are pending in the a 4a) Of the above claim(s) 9 and 10 is/are witho 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1.4 and 5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	drawn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 4/20/2009.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:			

DETAILED ACTION

The amendment filed March 16, 2009 have been received and entered into the application.

Action Summary

The rejection of claims 1 and 4 under 35 U.S.C. 103(a) as being unpatentable over Sehgal (EP 0041795 A2) in view of Myers (U.S.Patent No. 5,891,845) is being maintained for the reasons stated in the previous Office Action.

The rejection of claim 5 under 35 U.S.C. 103(a) as being unpatentable over Sehgal (EP 0041795 A2) in view of Myers (U.S.Patent No. 5,891,845) as applied to claims 1 and 4, and further in view of Cooperstone et al. (U.S.Patent No. 7,060,709 B2) is being maintained for the reasons stated in the previous Office Action.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sehgal (EP 0041795 A2) of record in view of Myers (U.S.Patent No. 5,891,845) of record.

Sehgal teaches an injectable composition of rapamycin, suitable for intravenous administration comprising about 1 to 20mg/ml of rapamycin composition and nonionic surfactants. (page 19, claim 1). This concentration range encompasses Applicants' range set forth in claims 1 and 3. Sehgal teaches that the rapamycin composition is prepared by dissolving rapamycin in an organic solvent which is capable of dissolving rapamycin and is miscible with the nonionic surfactant such as ethanol, and adding the nonionic surfactant, if required, removing some or all of the organic solvent, and adding water. (page 6, line 4- page 7, line 5). Sehgal illustrates the preparation of an injectable rapamycin composition by removing ethanol by evaporation. (page 8, example 1, claim 7). Sehgal teaches that various surfactant can be employed in the composition. (page 3, claim 9).

Sehgal do not teach the amount of ethanol and vitamin E TPGS set forth in claim 1.

Myers teaches TPGS is known as a surface active agent derived from a natural source of vitamin E and believed to be a bioavailability enhancer and utilized in various formulations. (column 7, lines 13-65).

It would have been obvious to one of ordinary skill in the art to incorporate vitamin E TPGS in Sehgal's rapamycin formulation because Sehgal teaches that various surfactants can be added in the formulation and because Myers teaches that TPGS is known surfactant utilized in various formulations. One would have been motivated to make such modification in order to achieve enhanced bioavailability of rapamycin by adding surfactant such as TPGS taught by Myers as a bioavailability

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enhancing surfactant. There is a reasonable expectation of successfully formulating rapamycin together with TPGS because Sehgal teach that various surfactants can be employed in rapamycin formulation and vitamin E-TPGS provides enhanced bioavailability of rapamycin. With regard to the claimed residual content of ethanol less than 2%, such is obvious because Sehgal illustrates removing ethanol by evaporation upon the dissolution of rapamycin in the process of preparing the injectable formulation of rapamycin. Sehgal teaches that some or all of the ethanol content can be removed once the dissolution of rapamycin takes place. Therefore, the ethanol content of less than 2% is encompassed by the evaporation step taught by Sehgal et al.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sehgal (EP 0041795 A2) in view of Myers (U.S.Patent No. 5,891,845) as applied to claims 1 and 4 above, and further in view of Cooperstone et al. (U.S.Patent No. 7,060,709 B2), all of record.

The teachings of Sehgal and Myers as applied as before.

Sehgal and Myers do not teach CCI-779.

Copperstone et al. teach that CCI-779 is a rapamycin 42-ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid and can be formulated in an injectable composition. (abstract, column 1, lines 61-67). Cooperstone et al. teach that that use of a surfactant with diluents is advantageous in the CCI-779 parenteral formulation because it prevents precipitation of CCI-779 upon dilution with aqueous infusion solutions or blood. (column 7, lines 7-14).

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It would have been obvious to one of ordinary skill in the art to employ rapamycin compound such as CCI-779 in Sehgal's formulation as modified by Myers because Copperstone et al. teach that CCI-779 is a rapamycin 42-ester with 3-hydroxy-2-(hydroxymethyl)-2-methylpropionic acid and can be formulated in an injectable composition. One would be motivated to make such modification in order to achieve an expected benefit of stability of CCI-779 with surfactant and diluents contained in Sehgal's composition as modified by Myers preventing precipitation of CCI-779.

For these reasons the claimed subject matter is deemed to fail to patentably distinguish over the state of the art as represented by the cited references. The claims are therefore properly rejected under 35 U.S.C. 103.

Response to Arguments

Applicants' arguments filed March 16, 2009 have been fully considered but they are not persuasive. Applicants argue that Sehgal discloses an injectable composition of rapamycin that comprises no vitamin E and no ethanol in the final product. This is not found to be persuasive because Sehgal teach that the **some** or all of the ethanol content can be removed which encompasses the amount of ethanol instantly claimed residual concentrations of ethanol. Applicants argue that the Sehgal composition is diluted with water for injection and therefore there is no stable solution containing water. This is not found to be persuasive because Sehgal's addition of water meets Applicants' newly added limitation of the composition as being an aqueous. Further, Sehgal

teaches that his composition provides rapamycin in a water soluble formulation which is suitable for injection while prior art rapamycin compositions were not stable in aqueous solutions. (see page 2, lines 34-page 3, line 3).

Applicants argue that Myers teaches a solid solution for vitamin E TPGS and a pharmaceutical agent that is not a liquid solution utilizing water, but rather a binary system of equal amounts of vitamin E and agent. Therefore, no stable solutions and no reasons to combine vitamin E TPGS with Sehgal's composition because Sehgal dilutes with water only for IV use. This is not found to be persuasive because Sehgal teaches that various surfactants can be employed with rapamycin composition while Myers teaches the advantages of well known surfactant, TPGS, as a bioavailability enhancer and utilized in various formulations. Further, it is well known in the art that vitamin E TPGS has been combined with rapamycin in aqueous parenteral formulations. (see Rubino et al. US 2004/0167152A1 of record). Thus, the claims fail to patentably distinguish over the state of the art as represented by the cited references.

THIS ACTION IS MADE FINAL. Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER M. KIM whose telephone number is (571)272-0628. The examiner can normally be reached on Monday through Friday 6:30 am to 3 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

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Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JENNIFER M KIM/ Primary Examiner, Art Unit 1617

Jmk May 14, 2009